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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/511,939

DATE: 04/24/2002  
TIME: 14:20:55

Input Set : A:\seqlist.ST25.txt  
Output Set: N:\CRF3\04242002\I511939.raw

P.6

3 <110> APPLICANT: Tomlinson, Ian M  
4 Winter, Gregory  
6 <120> TITLE OF INVENTION: Method to Screen Phage Display Libraries with Different  
Ligands  
8 <130> FILE REFERENCE: 8039/1070  
10 <140> CURRENT APPLICATION NUMBER: US 09/511,939  
C--> 11 <141> CURRENT FILING DATE: 2002-04-10  
13 <150> PRIOR APPLICATION NUMBER: GB 9722131.1  
14 <151> PRIOR FILING DATE: 1997-10-20  
16 <150> PRIOR APPLICATION NUMBER: US 60/065,248  
17 <151> PRIOR FILING DATE: 1997-11-13  
19 <150> PRIOR APPLICATION NUMBER: US 60/066,729  
20 <151> PRIOR FILING DATE: 1997-11-21  
22 <150> PRIOR APPLICATION NUMBER: PCT/GB98/03135  
23 <151> PRIOR FILING DATE: 1998-10-20  
25 <160> NUMBER OF SEQ ID NOS: 350  
27 <170> SOFTWARE: PatentIn version 3.1  
29 <210> SEQ ID NO: 1  
30 <211> LENGTH: 720  
31 <212> TYPE: DNA  
32 <213> ORGANISM: Homo sapiens  
34 <400> SEQUENCE: 1  
35 gaggtgcagc tggtggagtc tgggggaggc ttggcacagc ctggggggtc cctgagactc 60  
37 tcctgtcagc cctctggatt cacccttagc agctatgcc a tagctgggt ccggcaggct 120  
39 ccagggaaagg ggctggagtg ggtctcagct attagtgta gtgggtggtag cacatactac 180  
41 gcagactccg tgaaggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240  
43 ctgcaaatga acagcctgag agccgaggac acggccgtat attactgtgc gaaaagttat 300  
45 ggtgcttttg actactgggg ccagggaaacc ctggtcaccg tctcgagcgg tggaggcgg 360  
47 tcaggcggag gtggcagcgg cgggtggcggg tcgacggaca tccagatgac ccagtctcca 420  
49 tcctccctgt ctgcacatctgt aggagacaga gtcaccatca cttggccggc aagtcaagagc 480  
51 attagcagct atttaaattt gtagcagcag aaaccaggaa aagccctaa gctcctgtatc 540  
53 tatgctgcat ccagtttgc a aagtggggtc ccatcaaggt tcaatggcag tggatctggg 600  
55 acagatttca ctctcaccat cagcagtctg caacctgaag attttgcac ttactactgt 660  
57 caacagagtt acagtaaaaa taatacgttc ggcacaggaa ccaaggtgaa aatcaaacgg 720  
60 <210> SEQ ID NO: 2  
61 <211> LENGTH: 240  
62 <212> TYPE: PRT  
63 <213> ORGANISM: Homo sapiens  
65 <400> SEQUENCE: 2  
67 Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly 15  
68 1 5 10 15  
71 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
72 20 25 30  
75 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

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76	35	40	45	
79	Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val			
80	50	55	60	
83	Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr			
84	65	70	75	80
87	Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys			
88	85	90	95	
91	Ala Lys Ser Tyr Gly Ala Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val			
92	100	105	110	
95	Thr Val Ser Ser Gly Gly Ser Gly Gly Gly Ser Gly Gly			
96	115	120	125	
99	Gly Gly Ser Thr Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser			
100	130	135	140	
103	Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser			
104	145	150	155	160
107	Ile Ser Ser Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro			
108	165	170	175	
111	Lys Leu Leu Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser			
112	180	185	190	
115	Arg Phe Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser			
116	195	200	205	
119	Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr			
120	210	215	220	
123	Ser Thr Pro Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg			
124	225	230	235	240

127 <210> SEQ ID NO: 3

128 <211> LENGTH: 7

129 <212> TYPE: DNA

130 <213> ORGANISM: Artificial Sequence

132 <220> FEATURE:

133 <223> OTHER INFORMATION: Artificial DVT variable codons used to introduce sequence

diversi

134 ty.

136 <220> FEATURE:

137 <221> NAME/KEY: misc\_feature

138 <222> LOCATION: (1)..(7)

139 <223> OTHER INFORMATION: Artificial DVT variable codons used to introduce sequence

diversi

140 ty

143 <400> SEQUENCE: 3

7

144 agtagct

147 <210> SEQ ID NO: 4

148 <211> LENGTH: 7

149 <212> TYPE: DNA

150 <213> ORGANISM: Artificial Sequence

152 <220> FEATURE:

153 <223> OTHER INFORMATION: Artificial DVC variable codon used to introduce sequence

diversit

154 y.

156 <220> FEATURE:

157 <221> NAME/KEY: misc\_feature

158 <222> LOCATION: (1)..(7)

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159 <223> OTHER INFORMATION: Artificial DVC variable codon used to introduce sequence  
diversit  
160       y.  
163 <400> SEQUENCE: 4  
164 agtagcc  
167 <210> SEQ ID NO: 5  
168 <211> LENGTH: 7  
169 <212> TYPE: DNA  
170 <213> ORGANISM: Artificial Sequence  
172 <220> FEATURE:  
173 <223> OTHER INFORMATION: Artificial DVY codon used to introduce sequence variation.  
175 <220> FEATURE:  
176 <221> NAME/KEY: misc\_feature  
177 <222> LOCATION: (1)..(7)  
178 <223> OTHER INFORMATION: Artificial DVY codon used to introduce sequence variation.  
181 <400> SEQUENCE: 5  
182 agtagcy  
185 <210> SEQ ID NO: 6  
186 <211> LENGTH: 15  
187 <212> TYPE: PRT  
188 <213> ORGANISM: Artificial Sequence  
190 <220> FEATURE:  
191 <223> OTHER INFORMATION: Example of artificial linker sequence useful between VH and  
VL do  
192       mains of scFv.  
194 <220> FEATURE:  
195 <221> NAME/KEY: MISC\_FEATURE  
196 <223> OTHER INFORMATION: Example of artificial linker sequence useful between VL and  
VH do  
197       mains of scFv.  
200 <400> SEQUENCE: 6  
202 Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser  
203 1                   5                   10                   15  
206 <210> SEQ ID NO: 7  
207 <211> LENGTH: 5  
208 <212> TYPE: PRT  
209 <213> ORGANISM: Homo sapiens  
211 <400> SEQUENCE: 7  
213 Ser Tyr Ala Met Ser  
214 1                   5  
217 <210> SEQ ID NO: 8  
218 <211> LENGTH: 17  
219 <212> TYPE: PRT  
220 <213> ORGANISM: Homo sapiens  
222 <400> SEQUENCE: 8  
224 Ile Ile Gly Ser Glu Gly Trp Pro Thr Ile Tyr Ala Asp Ser Val Lys  
225 1                   5                   10                   15  
228 Gly  
232 <210> SEQ ID NO: 9  
233 <211> LENGTH: 7  
234 <212> TYPE: PRT  
235 <213> ORGANISM: Homo sapiens

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237 <400> SEQUENCE: 9  
239 Gly Gly Ser Met Phe Asp Tyr  
240 1 5  
243 <210> SEQ ID NO: 10  
244 <211> LENGTH: 11  
245 <212> TYPE: PRT  
246 <213> ORGANISM: Homo sapiens  
248 <400> SEQUENCE: 10  
250 Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn  
251 1 5 10  
254 <210> SEQ ID NO: 11  
255 <211> LENGTH: 7  
256 <212> TYPE: PRT  
257 <213> ORGANISM: Homo sapiens  
259 <400> SEQUENCE: 11  
261 Arg Ala Ser Ser Leu Gln Ser  
262 1 5  
265 <210> SEQ ID NO: 12  
266 <211> LENGTH: 9  
267 <212> TYPE: PRT  
268 <213> ORGANISM: Homo sapiens  
270 <400> SEQUENCE: 12  
272 Gln Gln Ser Ser Asn Thr Pro Tyr Thr  
273 1 5  
276 <210> SEQ ID NO: 13  
277 <211> LENGTH: 5  
278 <212> TYPE: PRT  
279 <213> ORGANISM: Homo sapiens  
281 <400> SEQUENCE: 13  
283 Ala Tyr Ala Met Thr  
284 1 5  
287 <210> SEQ ID NO: 14  
288 <211> LENGTH: 17  
289 <212> TYPE: PRT  
290 <213> ORGANISM: Homo sapiens  
292 <400> SEQUENCE: 14  
294 Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys  
295 1 5 10 15  
298 Gly  
302 <210> SEQ ID NO: 15  
303 <211> LENGTH: 7  
304 <212> TYPE: PRT  
305 <213> ORGANISM: Homo sapiens  
307 <400> SEQUENCE: 15  
309 Lys Ala Ser Ser Phe Asp Tyr  
310 1 5  
313 <210> SEQ ID NO: 16  
314 <211> LENGTH: 11  
315 <212> TYPE: PRT

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316 <213> ORGANISM: Homo sapiens  
318 <400> SEQUENCE: 16  
320 Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn  
321 1 5 10  
324 <210> SEQ ID NO: 17  
325 <211> LENGTH: 7  
326 <212> TYPE: PRT  
327 <213> ORGANISM: Homo sapiens  
329 <400> SEQUENCE: 17  
331 Ala Ala Ser Ser Leu Gln Ser  
332 1 5  
335 <210> SEQ ID NO: 18  
336 <211> LENGTH: 9  
337 <212> TYPE: PRT  
338 <213> ORGANISM: Homo sapiens  
340 <400> SEQUENCE: 18  
342 Gln Gln Ser Tyr Ser Thr Pro Ser Thr  
343 1 5  
346 <210> SEQ ID NO: 19  
347 <211> LENGTH: 5  
348 <212> TYPE: PRT  
349 <213> ORGANISM: Homo sapiens  
351 <400> SEQUENCE: 19  
353 Ser Tyr Ala Met Ser  
354 1 5  
357 <210> SEQ ID NO: 20  
358 <211> LENGTH: 17  
359 <212> TYPE: PRT  
360 <213> ORGANISM: Homo sapiens  
362 <400> SEQUENCE: 20  
364 Leu Ile Ser Pro Leu Gly Lys Asp Thr Ser Tyr Ala Asp Ser Val Lys  
365 1 5 10 15  
368 Gly  
372 <210> SEQ ID NO: 21  
373 <211> LENGTH: 7  
374 <212> TYPE: PRT  
375 <213> ORGANISM: Homo sapiens  
377 <400> SEQUENCE: 21  
379 Arg Ala Gly Ile Phe Asp Tyr  
380 1 5  
383 <210> SEQ ID NO: 22  
384 <211> LENGTH: 11  
385 <212> TYPE: PRT  
386 <213> ORGANISM: Homo sapiens  
388 <400> SEQUENCE: 22  
390 Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn  
391 1 5 10  
394 <210> SEQ ID NO: 23  
395 <211> LENGTH: 7

RAW SEQUENCE LISTING ERROR SUMMARY  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:320; N Pos. 23,24,29,30,32,33,38,39,41,42,44,45,50,51  
Seq#:323; N Pos. 23,24,26,27,29,30,32,33  
Seq#:326; N Pos. 21,22,30,31  
Seq#:329; N Pos. 23,24,29,30,32,33,35,36,38,39  
Seq#:332; N Pos. 21,22,27,28,33,34  
Seq#:335; N Pos. 23,24,26,27,29,30,32,33  
Seq#:338; N Pos. 21,22,27,28,30,31,33,34  
Seq#:341; N Pos. 23,24